

What is claimed is:

1. A method for measuring a thiol group-containing compound, which comprises the steps of:

- (1) contacting a sample containing a thiol group-containing compound with a thin membrane comprising a microparticle of a substance selected from the group consisting of a metal and a metal compound and comprising a hydrophilic binder, and
- (2) detecting a color change on the thin membrane resulting from interaction of the thiol group-containing compound and the microparticle.

2. A method for measuring a thiol group-containing compound, which comprises the steps of:

- (1) contacting a sample containing a thiol group-containing compound with a thin membrane comprising a microparticle of a substance selected from the group consisting of a metal and a metal compound and comprising a hydrophilic binder and a crosslinking agent, and
- (2) detecting a color change on the thin membrane resulting from interaction of the thiol group-containing compound and the microparticle.

3. The method according to claim 1 or claim 2, wherein said metal or a metal constituting said metal compound is selected from the group consisting of a metal of the 2nd period, 3rd period, 4th period, 5th period, and 6th period of the periodic table of elements.

4. The method according to any one of claims 1 to 3, wherein said metal or a metal constituting said metal compound is a metal selected from the group consisting of a metal of Group VIb, Group VIIb, Group VIII, Group Ib, Group IIb, Group VIa and Group VIIa in the periodic table of elements.

5. The method according to claim 3, wherein said metal or the metal constituting said metal compound is a metal selected from the group consisting of gold, silver, copper, and platinum.

6. The method according to any one of claims 1 to 5, wherein the thiol group-containing compound is a compound selected from the group consisting of an alkylmercaptan, an arylmercaptan, an amino acid and a derivative thereof, a peptide compound, and a protein.

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7. The method according to any one of claims 1 to 6, wherein the sample containing the thiol group-containing compound is a biosample isolated or collected from a mammal including human.

8. The method according to claim 7, wherein the biosample is a cancer tissue slice.

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9. A thin membrane used for measurement of a thiol group-containing compound, which comprises a microparticle of a substance selected from the group consisting of a metal and a metal compound and comprises a hydrophilic binder.

10. The thin membrane according to claim 9 which further comprises a crosslinking agent.

11. The thin membrane according to claim 9 or claim 10, which generates a color change by interaction of the thiol group-containing compound and the microparticle.

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12. A thin membrane for use in the method according to any one of claims 1 to

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